

Abstract

Spectrally broadband light source of high optical power

A spectrally broadband light source of high optical power for fiber optic applications comprises according to the invention the combination of a number of LEDs (3) arranged as a monolithic array of adjacent surface-emitting, bright, on a wafer or chip, a microoptics array (4), arranged upstream of the monolithic LED linear array on the emission side, for focusing the light beams emanating from the LEDs, and the use of a further collecting optics (5), in particular a spherical lens, for optimizing the power launched into a respectively provided fiber (6).

The broadband light source according to the invention is suitable, in particular, as a particularly moderately priced replacement for superluminescent diodes in fiber optic sensors, in particular in fiber optic gyroscopes.

(Figure 1)